[4910-13-U]

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39 [66 FR 28364 5/23/2001]

[Docket No. 99-NE-58-AD; Amendment 39-12238; AD 2001-10-12]

RIN 2120-AA64

Airworthiness Directives; GE Aircraft Engines CJ610 Series Turbojet and CF700 Turbofan Engines

AGENCY: Federal Aviation Administration, DOT.

ACTION: Final rule; request for comments.

SUMMARY: This amendment supersedes an existing airworthiness directive (AD) that is applicable to GE Aircraft Engines (GEAE) CJ610 series turbojet and CF700 series turbofan engines that currently requires removal of certain unapproved parts before further flight. This amendment requires removal of additional unapproved parts. This amendment is prompted by the discovery by the FAA of additional unapproved parts not listed in the original AD that have been introduced into the field and might be installed on the affected engines. The actions specified in this AD are intended to prevent the use of unapproved parts which could lead to an uncontained engine failure and damage to the airplane.

DATES: Effective June 7, 2001.

Comments for inclusion in the Rules Docket must be received on or before July 23, 2001.

ADDRESSES: Submit comments in triplicate to the Federal Aviation Administration (FAA), New England Region, Office of the Regional Counsel, Attention: Rules Docket No. 99-NE-58-AD, 12 New England Executive Park, Burlington, MA 01803-5299. Comments may also be sent via the Internet using the following address: "9-ane-adcomment@faa.gov". Comments sent via the Internet must contain the docket number in the subject line.

FOR FURTHER INFORMATION CONTACT: Kevin Donovan, Aerospace Engineer, Engine Certification Office, FAA, Engine and Propeller Directorate, 12 New England Executive Park, Burlington, MA 01803-5299; telephone (781) 238-7743, fax (238) 238-7199.

SUPPLEMENTARY INFORMATION: On January 5, 2000, the FAA issued AD 2000-01-09, Amendment 39-11506 (65 FR 1771) to require removal of certain unapproved parts before further flight. That amendment was prompted by findings that life-limited parts, with inaccurate records, have been introduced into the field and might be installed on the affected engines. That condition, if not corrected, could lead to an uncontained engine failure and damage to the airplane.

Since the issuance of that AD, the FAA discovered a compressor rotor during an audit with suspected military markings. The manufacturer confirmed that the marking was an electro-etched Low Cycle Fatigue Cycles (LCFC) marking used strictly on military parts. The original AD, AD 2000-01-09, did not identify this particular compressor rotor or the three additional rotors containing unapproved parts discovered at other locations during subsequent audits.

FAA's Determination of an Unsafe Condition and Proposed Actions

Since an unsafe condition has been identified that is likely to exist or develop on other GE Aircraft Engines (GEAE) CJ610 series turbojet and CF700 series turbofan engines of the same type design, this AD supersedes AD 2000-01-09 to require removal before further flight of the additional unapproved parts not listed in the original AD that have been introduced into the field and might be installed on the affected engines.

Immediate Adoption of This AD

Since a situation exists that requires the immediate adoption of this regulation, it is found that notice and opportunity for prior public comment hereon are impracticable, and that good cause exists for making this amendment effective in less than 30 days.

Comments Invited

Although this action is in the form of a final rule that involves requirements affecting flight safety and, thus, was not preceded by notice and an opportunity for public comment, comments are invited on this rule. Interested persons are invited to comment on this rule by submitting such written data, views, or arguments as they may desire. Communications should identify the Rules Docket number and be submitted in triplicate to the address specified under the caption "ADDRESSES." All communications received on or before the closing date for comments will be considered, and this rule may be amended in light of the comments received. Factual information that supports the commenter's ideas and suggestions is extremely helpful in evaluating the effectiveness of the AD action and determining whether additional rulemaking action would be needed.

Comments are specifically invited on the overall regulatory, economic, environmental, and energy aspects of the rule that might suggest a need to modify the rule. All comments submitted will be available, both before and after the closing date for comments, in the Rules Docket for examination by interested persons. A report that summarizes each FAA-public contact concerned with the substance of this AD will be filed in the Rules Docket.

Commenters wishing the FAA to acknowledge receipt of their comments submitted in response to this action must submit a self-addressed, stamped postcard on which the following statement is made: "Comments to Docket Number 99-NE-58-AD." The postcard will be date stamped and returned to the commenter.

Regulatory Impact

This final rule does not have federalism implications, as defined in Executive Order 13132, because it would not have a substantial direct effect on the States, on the relationship between the national government and the States, or on the distribution of power and responsibilities among the various levels of government. Accordingly, the FAA has not consulted with state authorities prior to publication of this final rule.

The FAA has determined that this regulation is an emergency regulation that must be issued immediately to correct an unsafe condition in aircraft, and is not a "significant regulatory action" under Executive Order 12866. It has been determined further that this action involves an emergency regulation under DOT Regulatory Policies and Procedures (44-FR-11034, February 26, 1979). If it is determined that this emergency regulation otherwise would be significant under DOT Regulatory Policies and Procedures, a final regulatory evaluation will be prepared and placed in the Rules Docket. A copy of it, if filed, may be obtained from the Rules Docket at the location provided under the caption "ADDRESSES."

List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Safety.

Adoption of the Amendment

Accordingly, pursuant to the authority delegated to me by the Administrator, the Federal Aviation Administration amends part 39 of the Federal Aviation Regulations (14 CFR-part-39) as follows:

PART 39 - AIRWORTHINESS DIRECTIVES

1. The authority citation for part 39 continues to read as follows:

Authority: 49 U.S.C. 106(g), 40113, 44701.

§39.13 [Amended]

2. Section 39.13 is amended by removing Amendment 39-11506 (65 FR 1771, January 12, 2000), and by adding a new airworthiness directive (AD), Amendment 39-12238, to read as follows:

AIRWORTHINESS DIRECTIVE

Aircraft Certification Service
Washington, DC

U.S. Department
of Transportation
Federal Aviation
Administration

We post ADs on the internet at "av-info.faa.gov"

The following Airworthiness Directive issued by the Federal Aviation Administration in accordance with the provisions of Title 14 of the Code of Federal Regulations (14 CFR) part 39, applies to an aircraft model of which our records indicate you may be the registered owner. Airworthiness Directives affect aviation safety and are regulations which require immediate attention. You are cautioned that no person may operate an aircraft to which an Airworthiness Directive applies, except in accordance with the requirements of the Airworthiness Directive (reference 14 CFR part 39, subpart 39.3).

2001-10-12 GE Aircraft Engines (GEAE) Amendment 39-12238. Docket 99-NE-58-AD. Supersedes AD 2000-01-09, Amendment 39-11506.

Applicability

This airworthiness directive (AD) is applicable to GEAE CJ610 series turbojet and CF700 series turbofan engines, with parts listed by part number (P/N) and serial number (SN) in Tables I and II, installed. These engines are installed on, but not limited to, the Dassault-Aviation Fan Jet Falcon 20 series, Sabreliner NA265 series, Learjet 20 series, Israel Aircraft Industries Westwind series, Hansa Jet, Aero Commander, and Jet Commander.

Note 1: This AD applies to each engine identified in the preceding applicability provision, regardless of whether it has been modified, altered, or repaired in the area subject to the requirements of this AD. For engines that have been modified, altered, or repaired so that the performance of the requirements of this AD is affected, the owner/operator must request approval for an alternative method of compliance in accordance with paragraph (c) of this AD. The request should include an assessment of the effect of the modification, alteration, or repair on the unsafe condition addressed by this AD; and, if the unsafe condition has not been eliminated, the request should include specific proposed actions to address it.

Compliance

Compliance with this AD is required as indicated, unless already done.

To prevent the use of unapproved parts, which could lead to an uncontained engine failure and damage to the airplane, accomplish the following:

Replacement of Unapproved Parts

(a) Before further flight, remove any part listed by P/N and SN in Tables I and II of this AD, and replace it with a serviceable part:

Table I Unapproved Parts Listed in AD 2000-01-09

PART NUMBER	PART NAME	SERIAL NUMBER
3007T98G01	Shaft, compressor drive	HPCTQA11693
3007T98G01	Shaft, compressor drive	HPCTQA11929
3007T98G01	Shaft, compressor drive	HPCTQA1929
3007T98G01	Shaft, compressor drive	HPGTQA9947
3007T98G01	Shaft, compressor drive	TQA14300
37D401014P101	Torque ring, turbine	GGM681
37D401014P101	Torque ring, turbine	GGMCBK1977
37D401014P101	Torque ring, turbine	GGMWZA1230

Table I Unapproved Parts Listed in AD 2000-01-09 cont'd…

PART NUMBER	PART NAME	SERIAL NUMBER
37D401014P101	Torque ring, turbine	GGMWZA2322
37D401014P101	Torque ring, turbine	GGMWZA4665
37D401014P101	Torque ring, turbine	PMB08403P
37D401014P102	Torque ring, turbine	PMB19204
37D401302P101	Spacer, stage 2	GATI2099WYR
37D401302P101	Spacer, stage 2	GATWZA09656
37D401302P101	Spacer, stage 2	GATWZA10002
37D401302P101	Spacer, stage 2	GATWZA10148
37D401302P101	Spacer, stage 2	GATWZA5419
37D401303P102	Spacer, stage 3	GATCBK02192
37D401303P102	Spacer, stage 3	GATWZA12030
37D401303P102	Spacer, stage 3	GGMWZA1022
37D401303P104	Spacer, stage 3	GATWYR5364
37D401304P104	Spacer, stage 4	GATANWA2378
37D401305P103	Spacer, stage 5	GATANW9528
37D401305P103	Spacer, stage 5	GATANWA7441
37D401305P103	Spacer, stage 5	GATANWA8542
37D401305P103	Spacer, stage 5	GGMANW3172
37D401306P103	Spacer, stage 6	GATANW6380
37D401306P103	Spacer, stage 6	GGMANW2331
37D401306P105	Spacer, stage 6	GATCDY71386
37D401306P105	Spacer, stage 6	GATO7040CDY
37D401307P103	Spacer, stage 7	GAT59653
37D401307P103	Spacer, stage 7	GATANW7170
37D401307P103	Spacer, stage 7	GATANWA7134
37D401307P103	Spacer, stage 7	GGMANW3104
37D401312P101	Disc, stage 2	GATI0156WZA
37D401312P101	Disc, stage 2	GATO8253WZA
37D401312P101	Disc, stage 2	GATWZA3983
37D401312P101	Disc, stage 2	GATWZA6604
37D401312P101	Disc, stage 2	GGMCBK620
37D401312P101	Disc, stage 2	GGMLBA4491
37D401313P101	Disc, stage 3	GATI3249WYI
37D401313P101	Disc, stage 3	GATO7644WZA
37D401313P101	Disc, stage 3	GATWZA6522
37D401313P101	Disc, stage 3	GATWZA6723
37D401313P101	Disc, stage 3	GGMLBA2102
37D401314P102	Disc, stage 4	GAT05572WZA
37D401314P102	Disc, stage 4	GATO4383WZA
37D401314P102	Disc, stage 4	GGMWZA6818
37D401315P101	Disc, stage 5	GAT12406WZA
37D401315P101	Disc, stage 5	GATWZA4753
37D401315P101	Disc, stage 5	GATWZA7093
37D401316P101	Disc, stage 6	GAT10162WZA
37D401316P101	Disc, stage 6	GATWZA4435
37D401316P101	Disc, stage 6	GATWZA7208
37D401316P101	Disc, stage 6	GGMWZA3376
37D401317P101	Disc, stage 7	GAT10013WZA

Table I Unapproved Parts Listed in AD 2000-01-09 cont'd…

PART NUMBER	PART NAME	SERIAL NUMBER
37D401317P101	Disc, stage 7	GAT13322WZA
37D401317P101	Disc, stage 7	GATI5009WYR
37D401709P101	Disc, stage 8	GATO3900WZA
37D401709P101	Disc, stage 8	GATO5381WZA
37D401709P101	Disc, stage 8	GGMWZA6906
37D401709P101	Disc, stage 8	GGMWZA6942
37E501428P102	Disc and shaft, stage 1	GATI2001WZA
37E501428P102	Disc and shaft, stage 1	GATWZA8639
37E501428P106	Disc and shaft, stage 1	GATO8474WZA
37E501428P106	Disc and shaft, stage 1	GGMWZA3231
4010T01P01	Seal labyrinth, stage 8	JADCSF334P59
4010T01P01	Seal labyrinth, stage 8	JADCSF5222
4010T01P01	Seal labyrinth, stage 8	JADCSF5444P21
4010T01P01	Seal labyrinth, stage 8	JADMCI3214
4036T24P01	Turbine wheel, stage 2	GATWYR14035
4036T24P01	Turbine wheel, stage 2	GATWYR14655
5013T79P01	Disc, stage 5	GATI1679WZA
5013T82P01	Disc, stage 7	GATI7662WYR
5013T88P01	Spacer, stage 4	GAT69935
5013T88P01	Spacer, stage 4	GATCDY66715
5013T89P01	Spacer, stage 5	GAT60180CDY
5013T90P01	Spacer, stage 7	GAT81678CDY
5013T90P01	Spacer, stage 7	GATCDY82036
5018T16P01	Disc, stage 4	GAT12222WYR
6028T44P01	Turbine wheel, stage 1	GAT11900
6028T44P01	Turbine wheel, stage 1	GAT13094
6028T44P01	Turbine wheel, stage 1	GAT14749
6028T44P01	Turbine wheel, stage 1	GAT15160
6028T44P01	Turbine wheel, stage 1	GAT15396WYR
6028T44P01	Turbine wheel, stage 1	GAT15703
6028T44P01	Turbine wheel, stage 1	GAT15821
6028T44P01	Turbine wheel, stage 1	GAT15899
6028T44P01	Turbine wheel, stage 1	GAT59743
6028T44P01	Turbine wheel, stage 1	GAT60190
6028T44P01	Turbine wheel, stage 1	GAT60197
6028T44P01	Turbine wheel, stage 1	GAT60483
6028T44P01	Turbine wheel, stage 1	GAT7321
6028T44P01	Turbine wheel, stage 1	GATA8475
6028T44P01	Turbine wheel, stage 1	GATA8492
6028T44P01	Turbine wheel, stage 1	GATAJ204
6028T44P01	Turbine wheel, stage 1	GATB6925
6028T44P01	Turbine wheel, stage 1	GATBE998
6028T44P01	Turbine wheel, stage 1	GATE2150
6028T44P01	Turbine wheel, stage 1	GATE2259
6028T44P01	Turbine wheel, stage 1	GATE2291
6028T44P01	Turbine wheel, stage 1	GATE2336
6028T44P01	Turbine wheel, stage 1	GATF4496
6028T44P01	Turbine wheel, stage 1	GATF4507

Table I Unapproved Parts Listed in AD 2000-01-09 cont'd…

PART NUMBER	PART NAME	SERIAL NUMBER
6028T44P01	Turbine wheel, stage 1	GATFE953
6028T44P01	Turbine wheel, stage 1	GATG6470
6028T44P01	Turbine wheel, stage 1	GATV6541
6028T44P01	Turbine wheel, stage 1	GATV6588
6028T44P01	Turbine wheel, stage 1	GATW1573
634E583P04	Turbine wheel, stage 1	GATWZA4994
634E583P5	Turbine wheel, stage 1	GAT10650
634E583P5	Turbine wheel, stage 1	GAT13048
646C596P2	Turbine wheel, stage 2	GATCBK01912
646C596P2	Turbine wheel, stage 2	GATWYR12725
* 646C596P2	Turbine wheel, stage 2	GATWZA9723
* 646C594P2	Turbine wheel, stage 2	GATWZA9723
* 646C594P1	Turbine wheel, stage 2	GATWZA9723
841B690P7	Assy, Turbine wheel, stage 1	GAT9383WZA
841B690P7	Assy, Turbine wheel, stage 1	GATMKF07225
841B690P7	Assy, Turbine wheel, stage 1	GATWYR12358
841B690P7	Assy, Turbine wheel, stage 1	GATWYR13457
841B690P7	Assy, Turbine wheel, stage 1	GATWYR13677
841B690P7	Assy, Turbine wheel, stage 1	GATWZA8110
841B690P7	Assy, Turbine wheel, stage 1	GATWZA8263
841B690P7	Assy, Turbine wheel, stage 1	GATWZA9182
841B690P7	Assy, Turbine wheel, stage 1	OJL0145
841B690P7	Assy, Turbine wheel, stage 1	WDBMKF07219

***** The FAA has determined that up to three Stage 2 Turbine wheels, SN GATWZA9723, may have been distributed with three different P/N's. Therefore, while only P/N 646C596P1 is an approved P/N for the CJ610 and CF700 model engine, all three part numbers are listed.

Table II: Additional Unapproved Parts Discovered Since Publication of AD 2000-01-09

Part Number	Part Name	Serial Number
37E501428P102	1st Stg Disc/Shaft/Spacer	GAT14210WYR
37E501428P106	Disc & Shaft Stg 1 Comp	GAT115140WZA
37D401312P101	Disc Stg 2 Comp	GAT2107WYR
37D401312P101	Disc Stg 2 Comp	GAT07432WZA
37D401313P101	Disc Stg 3 Comp	GAT2432WYR
37D401313P101	Disc Stg 3 Comp	GAT10717WZA
5018T16P01	Disc Stg 4 Comp	GAT10058WYR
5018T16P01	Disc Stg 4 Comp	GAT05724WZA
37D401315P101	Disc Stg 5 Comp	GAT16068WYR
37D401316P101	Disc Stg 6 Comp	GAT15035WYR
37D401317P101	Disc Stg 7 Comp	GAT6493WYR
5013T82P01	Disc Stg 7 Comp	GAT15819WYR
37D401709P101	Disc Stg 8 Comp	GAT08842WYR
5013T83P01	Disc Stg 8 Comp	GAT07464WYR
4010T010P02	Seal Rot Stg 8 Comp	JADMSA09181
4010T010P01	Seal Rot Stg 8 Comp	APVM0F00180
4010T01P01	Seal Rot Stg 8 Comp	APVM0F00192

Table II: Additional Unapproved Parts Discovered Since Publication of AD 2000-01-09 cont'd…

Part Number	Part Name	Serial Number
5004T73P02	Shaft Rear Comp	HPCTQA12100
3007T98G01	Shaft Rear Comp	HPCTQ1474
37D401303P102	Spacer Stg 3 Comp	GGMWZA1112
5013T88P01	Spacer Stg 4 Comp	GAT1A402
37D401302P101	Spacer Stg 2 Comp	GATWRY12483
37D401302P103	Spacer Stg 2 Comp	GATE0A00429
37D401303P102	Spacer Stg 3 Comp	GATWZA5858
37D401304P103	Spacer Stg 4 Comp	GATANW10309
37D401304P103	Spacer Stg 4 Comp	GATANWA5510
5013T88P01	Spacer Stg 4 Comp	GATCDY61557
37D401305P103	Spacer Stg 5 Comp	GATANW11066
37D401306P103	Spacer Stg 6 Comp	GATANW09191
37D401306P105	Spacer Stg 6 Comp	GAT8654CDY
37D401307P103	Spacer Stg 7 Comp	GATANW9286
37D401307P103	Spacer Stg 7 Comp	GATANWA6612

Alternate Methods of Compliance

(b) An alternative method of compliance or adjustment of the compliance time that provides an acceptable level of safety may be used if approved by the Manager, Engine Certification Office (ECO). Operators shall submit their requests through an appropriate FAA Principal Maintenance Inspector, who may add comments and then send it to the Manager, ECO.

Note 2: Information concerning the existence of approved alternative methods of compliance with this airworthiness directive, if any, may be obtained from the ECO.

Effective Date of This AD

(c) This amendment becomes effective on June 7, 2001.

FOR FURTHER INFORMATION CONTACT: Kevin Donovan, Aerospace Engineer, Engine Certification Office, FAA, Engine and Propeller Directorate, 12 New England Executive Park, Burlington, MA 01803-5299; telephone (781) 238-7743, fax (238) 238-7199.

Issued in Burlington, Massachusetts, on May 16, 2001.
Diane S. Romanosky, Acting Manager, Engine and Propeller Directorate, Aircraft Certification Service.